

SEQUENCE LISTING

<110> St.George-Hyslop, Peter H.
Fraser, Paul E.
Schering-Plough Corporation

<120> A novel presenilin associated membrane
protein and uses thereof

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<150> 09/541,094

<151> 2000-03-31

<160> 19

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 <212> PRT
 <213> human

<400> 14

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Lys	Gln	Cys	Tyr	Gln	Asp	His	Asn	Leu	Ser	Gln	Asn	Gly	Ser
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Ala	Asn	Asn	Ser	Trp	Phe	Gln	Ser	Ile	Leu	Arg	Gln	Asp	Leu
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Thr	Val	Val	Asn	Leu	Thr	Arg	Glu	Gln	Cys	Gln	Asp	Pro	Ser
		580					585					590	Lys
Pro	Ser	Glu	Asn	Lys	Asp	Leu	Tyr	Glu	Tyr	Ser	Trp	Val	Gln
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Leu	His	Ser	Asn	Glu	Thr	Asp	Arg	Leu	Pro	Arg	Cys	Val	Arg
	610				615				620				Ser
Ala	Arg	Leu	Ala	Arg	Ala	Leu	Ser	Pro	Ala	Phe	Glu	Leu	Ser

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Arg Ala Arg Ile Phe Leu Ile Ala Ser Lys Glu Leu Glu Leu Ile Thr						
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Leu Thr Val Gly Phe Gly Ile Leu Ile Phe Ser Leu Ile Val Thr Tyr						
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 <211> 708
 <212> PRT

<213> mouse

<400> 16

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Asn	Ser	Val	Glu	Arg	Lys	Ile	Tyr	Ile	Pro	Leu	Asn	Lys	Thr	Ala	Pro
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Cys	Val	Arg	Leu	Leu	Asn	Ala	Thr	His	Gln	Ile	Gly	Cys	Gln	Ser	Ser
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Ile	Ser	Gly	Asp	Thr	Gly	Val	Ile	His	Val	Val	Glu	Lys	Glu	Glu	Asp
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Leu	Lys	Trp	Val	Leu	Thr	Asp	Gly	Pro	Asn	Pro	Pro	Tyr	Met	Val	Leu
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			100					105					110		
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		115					120					125			
Ser	Thr	Ser	Ser	Phe	Ser	Pro	Ser	Val	Gln	Cys	Pro	Asn	Asp	Gly	Phe
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Thr	Leu	Trp	Asn	Glu	Leu	Gly	Asn	Gly	Leu	Ala	Tyr	Glu	Asp	Phe	Ser
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Ser	Arg	Asn	Val	Met	Phe	Val	Phe	Phe	Gln	Gly	Glu	Thr	Phe	Asp	Tyr
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Val	Arg	Leu	Glu	Asn	Ile	Asp	Ser	Phe	Val	Glu	Leu	Gly	Gln	Val	Ala
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Gln	Ser	Gln	Ala	Leu	Pro	Pro	Ser	Ser	Leu	Gln	Arg	Phe	Leu	Arg	Ala
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Leu Tyr Glu Leu Ala Gly Gly Thr Asn Phe Ser Ser Ser Ile Gln Ala		495
	500	505
Asp Pro Gln Thr Val Thr Arg Leu Leu Tyr Gly Phe Leu Val Lys Ala		510
	515	520
Asn Asn Ser Trp Phe Gln Ser Ile Leu Lys His Asp Leu Arg Ser Tyr		525
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Leu Asp Asp Arg Pro Leu Gln His Tyr Ile Ala Val Ser Ser Pro Thr		540
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Asn Thr Thr Tyr Val Val Gln Tyr Ala Leu Ala Asn Leu Thr Gly Lys		560
	565	570
Ala Thr Asn Leu Thr Arg Glu Gln Cys Gln Asp Pro Ser Lys Val Pro		575
	580	585
Asn Glu Ser Lys Asp Leu Tyr Glu Tyr Ser Trp Val Gln Gly Pro Trp		590
	595	600
Asn Ser Asn Arg Thr Glu Arg Leu Pro Gln Cys Val Arg Ser Thr Val		605
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Arg Leu Ala Arg Ala Leu Ser Pro Ala Phe Glu Leu Ser Gln Trp Ser		625
625	630	635
Ser Thr Glu Tyr Ser Thr Trp Ala Glu Ser Arg Trp Lys Asp Ile Gln		640
	645	650
Ala Arg Ile Phe Leu Ile Ala Ser Lys Lys Leu Glu Phe Ile Thr Leu		655
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Ile Val Gly Phe Ser Ile Leu Ile Phe Ser Leu Ile Val Thr Tyr Cys		670
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 <212> DNA
 <213> D. melanogaster

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<400> 18

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Gln	Thr	Gly	Cys	Ser	Ser	Thr	Tyr	Ser	Gly	Ser	Val	Gly	Val	Leu	His
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			115				120					125			
Asn	Cys	Pro	Asn	Gln	Tyr	Ser	Gly	Leu	Asn	Ser	Thr	Ser	Glu	Thr	Cys
	130				135						140				
Asp	Ala	Ser	Asn	Pro	Ala	Lys	Asn	Trp	Asn	Pro	Trp	Gly	Thr	Gly	Leu
145					150				155					160	
Leu	His	Glu	Asp	Phe	Pro	Phe	Pro	Ile	Tyr	Tyr	Ile	Ala	Asp	Leu	Asp
			165					170					175		
Gln	Val	Thr	Lys	Leu	Glu	Lys	Cys	Phe	Gln	Asp	Phe	Asn	Asn	His	Asn

				180				185				190					
Tyr	Glu	Thr	His	Ala	Leu	Arg	Ser	Leu	Cys	Ala	Val	Glu	Val	Lys	Ser		
		195					200					205					
Phe	Met	Ser	Ala	Ala	Val	Asn	Thr	Glu	Val	Cys	Met	Arg	Arg	Thr	Asn		
	210					215					220						
Phe	Ile	Asn	Asn	Leu	Gly	Ser	Lys	Tyr	Cys	Asp	Pro	Leu	Glu	Gly			
225					230				235					240			
Arg	Asn	Val	Ser	Pro	Pro	Cys	Thr	Pro	Glu	Ser	Gln	Gln	Ser	Glu	Thr		
			245						250					255			
Thr	Leu	Glu	Thr	Val	His	Thr	Asn	Glu	Lys	Phe	Ile	Leu	Val	Thr	Cys		
		260						265					270				
Arg	Leu	Asp	Thr	Thr	Thr	Met	Phe	Asp	Gly	Val	Gly	Leu	Gly	Ala	Met		
	275						280					285					
Asp	Ser	Leu	Met	Gly	Phe	Ala	Val	Phe	Thr	His	Val	Ala	Tyr	Leu	Leu		
	290						295				300						
Lys	Gln	Leu	Leu	Pro	Pro	Gln	Ser	Lys	Asp	Leu	His	Asn	Val	Leu	Phe		
305					310					315					320		
Val	Thr	Phe	Asn	Gly	Glu	Ser	Tyr	Asp	Tyr	Ile	Gly	Ser	Gln	Arg	Phe		
			325					330						335			
Val	Tyr	Asp	Met	Glu	Lys	Leu	Gln	Phe	Pro	Thr	Glu	Ser	Thr	Gly	Thr		
		340						345					350				
Pro	Pro	Ile	Ala	Phe	Asp	Asn	Ile	Asp	Phe	Met	Leu	Asp	Ile	Gly	Thr		
	355					360					365						
Leu	Asp	Asp	Ile	Ser	Asn	Ile	Lys	Leu	His	Ala	Leu	Asn	Gly	Thr	Thr		
	370					375					380						
Leu	Ala	Gln	Gln	Ile	Leu	Glu	Arg	Leu	Asn	Asn	Tyr	Ala	Lys	Ser	Pro		
385					390				395						400		
Arg	Tyr	Gly	Phe	Asn	Leu	Asn	Ile	Gln	Ser	Glu	Met	Ser	Ala	His	Leu		
			405					410						415			
Pro	Pro	Thr	Ser	Ala	Gln	Ser	Phe	Leu	Arg	Arg	Asp	Pro	Asn	Phe	Asn		
		420						425					430				
Ala	Leu	Ile	Leu	Asn	Ala	Arg	Pro	Thr	Asn	Lys	Tyr	Tyr	His	Ser	Thr		
	435						440					445					
Tyr	Asp	Asp	Ala	Asp	Asn	Val	Asp	Phe	Thr	Tyr	Ala	Asn	Thr	Ser	Lys		
	450				455						460						
Asp	Phe	Thr	Gln	Leu	Thr	Glu	Val	Asn	Asp	Phe	Lys	Ser	Leu	Asn	Pro		
465					470				475						480		
Asp	Ser	Leu	Gln	Met	Lys	Val	Arg	Asn	Val	Ser	Ser	Ile	Val	Ala	Met		
			485					490						495			
Ala	Leu	Tyr	Gln	Thr	Ile	Thr	Gly	Lys	Glu	Tyr	Thr	Gly	Thr	Lys	Val		
		500						505					510				
Ala	Asn	Pro	Leu	Met	Ala	Asp	Glu	Phe	Leu	Tyr	Cys	Phe	Leu	Gln	Ser		
	515						520					525					
Ala	Asp	Cys	Pro	Leu	Phe	Lys	Ala	Ala	Ser	Tyr	Pro	Gly	Ser	Gln	Leu		
	530					535					540						
Thr	Asn	Leu	Pro	Pro	Met	Arg	Tyr	Ile	Ser	Val	Leu	Gly	Gly	Ser	Gln		
545					550				555						560		
Glu	Ser	Ser	Gly	Tyr	Thr	Tyr	Arg	Leu	Leu	Gly	Tyr	Leu	Leu	Ser	Gln		
			565					570						575			
Leu	Gln	Pro	Asp	Ile	His	Arg	Asp	Asn	Cys	Thr	Asp	Leu	Pro	Leu	His		
		580						585					590				
Tyr	Phe	Ala	Gly	Phe	Asn	Asn	Ile	Gly	Glu	Cys	Arg	Leu	Thr	Thr	Gln		
	595						600					605					
Asn	Tyr	Ser	His	Ala	Leu	Ser	Pro	Ala	Phe	Leu	Ile	Asp	Gly	Tyr	Asp		
	610					615					620						
Trp	Ser	Ser	Gly	Met	Tyr	Ser	Thr	Trp	Thr	Glu	Ser	Thr	Trp	Ser	Gln		
625					630					635					640		
Phe	Ser	Ala	Arg	Ile	Phe	Leu	Arg	Pro	Ser	Asn	Val	His	Gln	Val	Thr		
			645					650					655				
Thr	Leu	Ser	Val	Gly	Ile	Val	Val	Leu	Ile	Ile	Ser	Phe	Cys	Leu	Val		

